

**DISPLAY UNIT (07-294916****Publication Number:** JP 7294916 A) , November 10, 1995**Inventors:**

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**Application Number:** 06-083229 (JP 9483229) , April 21, 1994**International Class (IPC Edition 6):**

- G02F-001/1335
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**JAPIO Class:**

- 29.2 (PRECISION INSTRUMENTS--- Optical Equipment)
- 43.4 (ELECTRIC POWER--- Applications)

**JAPIO Keywords:**

- R003 (ELECTRON BEAM)
- R011 (LIQUID CRYSTALS)
- R020 (VACUUM TECHNIQUES)
- R116 (ELECTRONIC MATERIALS--- Light Emitting Diodes, LED)
- R124 (CHEMISTRY--- Epoxy Resins)
- R125 (CHEMISTRY--- Polycarbonate Resins)

**Abstract:**

**PURPOSE:** To provide a thin display unit high in luminance and low in power consumption by arranging picture elements, which use monochromatic light emitting elements as light sources, in accordance with a liquid crystal display picture element pattern.

**CONSTITUTION:** Picture elements using monochromatic light emitting elements 3 to 5 as light sources are arranged in accordance with the liquid crystal display picture element pattern. The picture element pattern is a pattern consisting of required picture elements of liquid crystal display, and its representative pattern is delta arrangement for AV, stripe arrangement for OA, or the like. The technique to emit the light of a desired color in accordance with the picture element pattern is organic EL(electroluminescence), inorganic EL, or LED, and it is not especially limited if it can realize RGB light emission and fine working. Soda lime glass, alkali-free glass, or the like is used as the material of a glass substrate 1, and it is sufficient if it has enough thick to hold the mechanical strength.

JAPIO

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